IN THE CLAIMS:

Claims 1-7 (Cancelled)

- 8. (New) A residual image display device, comprising:
 - a substantially bar-shaped housing;
 - a plurality of light-emitting diodes arranged along a longitudinal direction of said housing;
- a light-emitting means for making each of said light-emitting diodes emit light individually;
- a light-receiving means for outputting a signal based on photoelectromotive force of each of part of light-emitting diodes among said plurality of light-emitting diodes;
- a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of part of light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state;
- a generating means for generating two-dimensional residual image data of said plurality of light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said part of light-emitting diodes;
 - a storing means for storing said two-dimensional residual image data; and
- a light-emission control means for controlling said light-emitting means to make said plurality of light-emitting diodes emit light based on said two-dimensional residual image data stored in said storing means, in accordance with swinging of said housing.
- 9. (New) A residual image display device, comprising:
 - a substantially bar-shaped housing;
 - a plurality of light-emitting diodes arranged along a longitudinal direction of said housing;
- a light-emitting means for making each of said plurality of light-emitting diodes emit light individually;
- a light-receiving means for outputting a signal based on photoelectromotive force of each of said plurality of light-emitting diodes;

a scanning control means for cotrolling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state;

a generating means for generating two-dimensional residual image data of part of lightemitting diodes among said plurality of light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said plurality of light-emitting diodes;

a storing means for storing said two-dimensional residual image data; and

a light-emission control means for controlling said light-emitting means to make said part of light-emitting diodes among said plurality of light-emitting diodes emit light based on said twodimensional residual image data stored in said storing means, in accordance with swinging of said housing.

10. (New) A residual image display device, comprising:

- a substantially bar-shaped housing;
- a plurality of light-emitting diodes arranged along a longitudinal direction of said housing;
- a light-emitting means for making said light-emitting diodes emit light individually;
- a light-receiving means for outputting a signal based on photoelectromotive force of each of said light-emitting diodes;
- a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of said light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state;
- a generating means for generating two-dimensional residual image data used for lightemission control of said light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said light-emitting diodes;

a storing means for storing said two-dimensional residual image data; and

a light-emission control means for controlling said light-emitting means to make said plurality of light-emitting diodes emit light based on said two-dimensional residual image data stored in said storing means, in accordance with swinging of said housing,

wherein said light-emission control means controls light emission so that a light-emission period of said light-emitting diodes based on said two-dimensional residual image data is equal to or less than 1/30 second.

11. (New) The residual image display device according to claim 8,

further comprising a detecting means for detecting a change of a swing direction of said housing,

wherein, with using a timing when said detecting means detects the change of the swing direction as a standard timing, after only a period from a finishing timing of last light-emission of said light-emitting diodes by said two-dimensional residual image data to said timing when said detecting means detects the change of the swing direction is passed, said light-emission control means starts light-emission of said light emitting diodes by said two-dimensional residual image data.

12. (New) The residual image display device according to claim 9,

further comprising a detecting means for detecting a change of a swing direction of said housing,

wherein, with using a timing when said detecting means detects the change of the swing direction as a standard timing, after only a period from a finishing timing of last light-emission of said light-emitting diodes by said two-dimensional residual image data to said timing when said detecting means detects the change of the swing direction is passed, said light-emission control means starts light-emission of said light emitting diodes by said two-dimensional residual image data.

13. (New) The residual image display device according to claim 10,

further comprising a detecting means for detecting a change of a swing direction of said housing,

wherein, with using a timing when said detecting means detects the change of the swing direction as a standard timing, after only a period from a finishing timing of last light-emission of said light-emitting diodes by said two-dimensional residual image data to said timing when said detecting means detects the change of the swing direction is passed, said light-emission control means starts light-emission of said light emitting diodes by said two-dimensional residual image data.

14. (New) A residual image display device, comprising:

- a substantially bar-shaped housing;
- a plurality of light-emitting diodes arranged along a longitudinal direction of said housing;
- a plurality of back face light-emitting diodes arranged along said longitudinal direction of said housing, in a back face of said housing that is a reverse-side of said plurality of light-emitting diodes;
- a light-emitting means for making said light-emitting diodes and said back face light-emitting diodes emit light individually;
- a light-receiving means for outputting a signal based on photoelectromotive force of each of said plurality of light-emitting diodes;
- a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of said light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state;
- a generating means for generating two-dimensional residual image data used for lightemission control of said light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said light-emitting diodes;

a storing means for storing said two-dimensional residual image data; and

a light-emission control means for controlling said light-emitting means to make said plurality of light-emitting diodes and said back face light-emitting diodes emit light based on said two-dimensional residual image data stored in said storing means, in accordance with swinging of said housing.

15. (New) A residual image display device, comprising:

- a substantially bar-shaped housing;
- a plurality of light-emitting diodes arranged along a longitudinal direction of said housing;
- a plurality of different color light-emitting diodes emitting light of a color different from that of said plurality of light-emitting diodes, being arranged correspondingly to each of said plurality of light-emitting diodes;
- a light-emitting means for making said light-emitting diodes and said different color light-emitting diodes emit light individually;
- a light-receiving means for outputting a signal based on photoelectromotive force of each of said light-emitting diodes;
- a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of said light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state;
- a generating means for generating two-dimensional residual image data used for lightemission control of said light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said light-emitting diodes;
 - a storing means for storing said two-dimensional residual image data;

and

a light-emission control means for controlling said light-emitting means to make said

plurality of light-emitting diodes emit light based on said two-dimensional residual image data stored in said storing means, and controlling said light-emitting means to make said plurality of different color light-emitting diodes corresponding to each of said light-emitting means which dose not emit light, in accordance with swinging of said housing.

16. (New) The residual image display device according to claim 15,

wherein said scanning control means controlling, instead of to make each of said light-emitting diodes emit light which is positioned neighboring said each of said light-emitting diodes to perform scanning, to make each of said different color light-emitting diodes emit light which is positioned neighboring said each of said light-emitting diodes to perform scanning, and for controlling to make said each of light-emitting diodes receive reflected light of said light.